EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	746	((Steiner with (Adrian A)) (Grossman with (Mike M))).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L3	530	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control $4 regulat$4 valve)) same ((fluid flow liquid rate) with (measur$7 sens$4 detect$4 meter)))	US-PGPUB; USPAT	OR	ON	2009/07/23 15:33
L4	2	((Steiner with (Adrian A)) (Grossman with (Mike M))).in. and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L5	61962	(Precision Weatherford).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35
L6	2	5 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35

S1	1	("700"/$ "137"/$) and ((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor)	USPAT	OR	OFF	2006/02/23 15:05
S2	8	("700"/$ "137"/$) and ((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor)	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S3	14	("700"/$ "137"/$) and ((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S4	62	((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:22

S5	50	((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller and $5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:37
S6	49	((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller and $5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:38
S7	59	((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:44
S8	43	((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor) and	US-PGPUB; USPAT	OR	ON	2006/02/24 13:00

		downstream and (flow with control$4 with orifice)				
S9	7	("700"/$ "137"/$) and ((control$4 with flow with rate) same (pressur$7 with fluid)) and conduit and (orifice with (open$4 clos$4)) and (choke valve) and turbine and (pressur$7 with fluid) and (pressure with (sens$3 detect$3 signal)) and (tube pitot pilot) and pump and (controller $5processor) and downstream and (flow with control$4 with orifice)	US-PGPUB; USPAT	OR	ON	2006/02/24 14:59
S10	2863	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow)	US-PGPUB; USPAT	OR	ON	2006/08/10 17:45
S12	0	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow) and pump and (controller same (compar$4 with flow)) and (choke valve) and tubine and (pressure near2 (sens$3 detect$3 measur$5))	US-PGPUB; USPAT	OR	ON	2006/08/10 18:01
S13	23	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow) and pump and (controller same (compar$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens$3 detect$3	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59

		measur$5))				
S14	5	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow) and pump and (controller same (compar$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens$3 detect$3 measur$5)) and (drilling rig)	US-PGPUB; USPAT	OR	ON	2006/08/11 12:11
S15	1	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow) and pump and (controller same (compar$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens$3 detect$3 measur$5)) and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59
S16	11	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:09
S17	7	(flow near1 rate) and ((flow near2 (sens$3 detect$3 measur$5)) with (pitot and pilot)) and (pitot pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14
S18	7	(flow near1 rate) and ((flow near2 (sens$3 detect$3 measur$5)) with (pitot and pilot))	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14

S19	356	(flow near1 rate) and (flow near2 (sens$3 detect$3 measur$5)) and conduit and (flow with control$4) and controller and (maintain with flow) and pump and (controller same (compar$4 with flow))	US-PGPUB; USPAT	OR	ON	2006/08/11 12:29
S20	30	(flow with (measur$7 sens$3 detect$3) with conduit) and (flow with control$4 with orifice with (adjust$7 open$4 clos$3)) and (choke valve) and turbine and (pressure with (measur$7 sens$3 detect$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 14:05
S21	34	(flow with (measur$7 sens$3 detect$3) with conduit) and (flow with control$4 with orifice with (adjust$7 open$4 clos$3 maintain$3 constant)) and (choke valve) and turbine and (pressure with (measur$7 sens$3 detect$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S22	34	(flow with (measur$7 sens$3 detect$3) with conduit) and (flow with control$4 with orifice with (adjust$7 open$4 clos$3 maintain$3 constant limit constraint tolerance)) and (choke valve) and turbine and (pressure with (measur$7 sens$3 detect$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52

S23	34	(flow with (measur$7 sens$3 detect$3) with conduit) and (flow with control$4 with orifice with (adjust$7 open$4 clos$3 maintain$3 constant limit constraint tolerance threshold)) and (choke valve) and turbine and (pressure with (measur$7 sens$3 detect$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S24	28	("20030085036" | "20040007131" | "20060157282" | "4091881" | "4247312" | "5010966" | "5388650" | "5415776" | "5749422" | "5775442" | "5827357" | "5857522" | "5862869" | "5928519" | "6035952" | "6041873" | "6206113" | "6234258" | "6315813" | "6328107" | "6328118" | "6413297" | "6443245" | "6494262" | "6662885" | "6722436" | "6790367" | "6929068").PN.	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52
S25	1196	(orifice with maintain$4 with flow with fluid)	US-PGPUB; USPAT	OR	ON	2007/06/07 13:49
S26	487	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4)	US-PGPUB; USPAT	OR	ON	2007/06/07 14:06
S27	320	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and pump	US-PGPUB; USPAT	OR	ON	2007/06/07 14:14

S28	162	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:39
S29	55	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir) and controller	US-PGPUB; USPAT	OR	ON	2007/06/26 13:29
S30	162	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:07
S31	1	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir) and (wellbore borehole)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:48
S32	4	(orifice with maintain$4 with flow with fluid) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 13:49
S33	19	(orifice with maintain$4 with flow with fluid same within) and ((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow with control$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 14:20

S34	19842	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:17
S35	3864	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within with (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:20
S36	2428	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within with (limit range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:23
S37	933	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:28
S38	101	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 15:42
S39	15	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/$ "137"/$)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:43

S40	47	((measur$7 sens$4 detect$4) with (fluid flow)) and ((fluid flow) with control$4) and ((fluid flow) with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/$ "137"/$)	US-PGPUB; USPAT	OR	ON	2007/06/26 17:59
S41	1169	(wellbore with flow with control$4)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:29
S42	428	(wellbore with flow with control$4) and ((maintain$4 constant) with flow)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:39
S43	230	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and (flow with (measur$7 sens$4 detect$4))	US-PGPUB; USPAT	OR	ON	2007/11/12 12:56
S44	230	(US-20070221380-$ or US-20070215386-$ or US-20070213963-$ or US-20070187103-$ or US-20070175638-$ or US-20070151762-$ or US-20070079962-$ or US-20070068704-$ or US-20070045006-$ or US-20070044960-$ or US-20070039731-$ or US-20070017675-$ or US-20070007041-$ or US-20060260331-$ or US-20060225920-$ or US-20060207795-$ or US-20060175061-$ or US-20060157282-$ or US-20060124352-$ or US-20060113110-$ or US-20060113089-$ or US-20060102390-$ or US-20060081378-$ or US-20060065402-$ or US-20060054323-$ or US-20060037781-$). did. or (US-20060037408-$ or US-20060000614-$ or US-20060000603-$ or US-20050288819-$ or US-20050279506-$ or US-	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:50

20050274547-$ or US-
20050268702-$ or US-
20050263287-$ or US-
20050217350-$ or US-
20050183574-$ or US-
20050166961-$ or US-
20050155760-$ or US-
20050121197-$ or US-
20050115713-$ or US-
20050098349-$ or US-
20050011645-$ or US-
20040256161-$ or US-
20040222018-$ or US-
20040216874-$ or US-
20040206548-$ or US-
20040173351-$ or US-
20040168811-$ or US-
20040154805-$ or US-
20040154803-$ or US-
20040139791-$ or US-
20040129874-$ or US-
20040129428-$).did. or
(US-20040129070-$ or
US-20040124008-$ or
US-20040112642-$ or
US-20040069539-$ or
US-20040069504-$ or
US-20040065477-$ or
US-20040065440-$ or
US-20040060705-$ or
US-20040055752-$ or
US-20040035577-$ or
US-20040031623-$ or
US-20040020860-$ or
US-20040007392-$ or
US-20040007365-$ or
US-20040000433-$ or
US-20030234110-$ or
US-20030192692-$ or
US-20030167835-$ or
US-20030098181-$ or
US-20030085185-$ or
US-20030079912-$ or
US-20030079880-$ or
US-20030066650-$ or
US-20030042021-$ or
US-20030015320-$ or
US-20020189815-$ or
US-20020185273-$).
did. or (US-
20020121372-$ or US-
20020112888-$ or US-
20020092655-$ or US-
20020084072-$ or US-
20020066596-$ or US-
20020060067-$ or US-

20020050354-$ or US-20020020533-$ or US-20010054514-$ or US-20010050170-$ or US-20010030049-$ or US-20010013412-$).did. or (US-7289909-$ or US-7281415-$ or US-7278496-$ or US-7270185-$ or US-7246662-$ or US-7243536-$ or US-7234524-$ or US-7198105-$ or US-7195084-$ or US-7185705-$ or US-7178599-$ or US-7174975-$ or US-7159661-$ or US-7140436-$ or US-7128144-$ or US-7114581-$ or US-7114401-$ or US-7096975-$ or US-7090012-$ or US-7066280-$ or US-7055627-$ or US-7044237-$ or US-7044229-$ or US-6991040-$ or US-6981561-$ or US-6976535-$).did. or (US-6964301-$ or US-6957698-$ or US-6951252-$ or US-6945095-$ or US-6904982-$ or US-6899178-$ or US-6860325-$ or US-6854532-$ or US-6851444-$ or US-6814142-$ or US-6799633-$ or US-6790367-$ or US-6786285-$ or US-6745845-$ or US-6745833-$ or US-6730236-$ or US-6715550-$ or US-6714480-$ or US-6688390-$ or US-6668924-$ or US-6666271-$ or US-6659177-$ or US-6648081-$ or US-6629564-$ or US-

6626251-$ or US-
6585041-$ or US-
6571886-$).did. or (US-
6543544-$ or US-
6543540-$ or US-
6540033-$ or US-
6536529-$ or US-
6516886-$ or US-
6505691-$ or US-
6467544-$ or US-
6464011-$ or US-
6443228-$ or US-
6434435-$ or US-
6419032-$ or US-
6415877-$ or US-
6414905-$ or US-
6289999-$ or US-
6234250-$ or US-
6230822-$ or US-
6228812-$ or US-
6227298-$ or US-
6192988-$ or US-
6192980-$ or US-
6182764-$ or US-
6176327-$ or US-
6176312-$ or US-
6167965-$ or US-
6125933-$ or US-
6065535-$ or US-
6046685-$).did. or (US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5975204-$ or US-
5964296-$ or US-
5941308-$ or US-
5941307-$ or US-
5937945-$ or US-
5934374-$ or US-
5927401-$ or US-
5896924-$ or US-
5868201-$ or US-
5857522-$ or US-
5829520-$ or US-
5803167-$ or US-
5762149-$ or US-
5741962-$ or US-
5735346-$ or US-
5732776-$ or US-
5730219-$ or US-
5721538-$ or US-
5706896-$ or US-
5706892-$ or US-
5662165-$ or US-
5622223-$ or US-
5597042-$ or US-

		5579283-$).did. or (US-5573225-$ or US-5525040-$ or US-5517854-$ or US-5505263-$ or US-5482402-$ or US-5472050-$ or US-5439055-$ or US-5392867-$ or US-5377755-$ or US-5353637-$ or US-5325795-$ or US-5261765-$ or US-5180015-$ or US-5168932-$ or US-5024275-$ or US-4989673-$ or US-4797821-$ or US-4721172-$ or US-4615390-$ or US-4605074-$ or US-4566536-$ or US-4475593-$ or US-4440239-$ or US-4374544-$ or US-4354553-$ or US-4145161-$ or US-4091881-$).did. or (US-4063602-$ or US-4043192-$ or US-3705626-$ or US-3578077-$).did.					
S45	230	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and S44	US-PGPUB; USPAT	OR	ON	2007/11/12 12:54
S46	184	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and (flow with (measur$7 sens$4 detect$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 11:37

| S47 | 184 | (US-20070215386-$ or US-20070187103-$ or US-20070175638-$ or US-20070151762-$ or US-20070079962-$ or US-20070068704-$ or US-20070045006-$ or US-20070044960-$ or US-20070039731-$ or US-20070017675-$ or US-20070007041-$ or US-20060260331-$ or US-20060225920-$ or US-20060207795-$ or US-20060175061-$ or US-20060157282-$ or US-20060124352-$ or US-20060113110-$ or US-20060102390-$ or US-20060081378-$ or US-20060065402-$ or US-20060054323-$ or US-20060037781-$ or US-20060037408-$ or US-20060000603-$ or US-20050288819-$). did. or (US-20050279506-$ or US-20050274547-$ or US-20050263287-$ or US-20050217350-$ or US-20050183574-$ or US-20050166961-$ or US-20050155760-$ or US-20050121197-$ or US-20050098349-$ or US-20050011645-$ or US-20040256161-$ or US-20040222018-$ or US-20040216874-$ or US-20040206548-$ or US-20040173351-$ or US-20040168811-$ or US-20040154805-$ or US-20040154803-$ or US-20040129874-$ or US-20040129428-$ or US-20040129070-$ or US-20040124008-$ or US-20040112642-$ or US-20040069539-$ or US-20040069504-$ or US-20040065477-$ or US-20040065440-$).did. or (US-20040060705-$ or | US-PGPUB; USPAT | OR | OFF | 2007/11/12 12:57 |

US-20040031623-$ or
US-20040007392-$ or
US-20040000433-$ or
US-20030192692-$ or
US-20030098181-$ or
US-20030085185-$ or
US-20030079912-$ or
US-20030079880-$ or
US-20030066650-$ or
US-20030042021-$ or
US-20030015320-$ or
US-20020185273-$ or
US-20020112888-$ or
US-20020092655-$ or
US-20020084072-$ or
US-20020066596-$ or
US-20020060067-$ or
US-20020050354-$ or
US-20020020533-$ or
US-20010054514-$ or
US-20010050170-$ or
US-20010013412-$).
did. or (US-7278496-$
or US-7270185-$ or US-
7246662-$ or US-
7243536-$ or US-
7234524-$ or US-
7198105-$ or US-
7195084-$ or US-
7185705-$ or US-
7178599-$ or US-
7174975-$ or US-
7140436-$ or US-
7128144-$ or US-
7114581-$ or US-
7114401-$ or US-
7096975-$ or US-
7090012-$ or US-
7066280-$ or US-
7055627-$ or US-
7044237-$ or US-
7044229-$ or US-
6981561-$ or US-
6976535-$ or US-
6964301-$ or US-
6957698-$ or US-
6904982-$ or US-
6899178-$).did. or (US-
6854532-$ or US-
6851444-$ or US-
6814142-$ or US-
6745833-$ or US-
6730236-$ or US-
6688390-$ or US-
6668924-$ or US-
6666271-$ or US-

6659177-$ or US-
6648081-$ or US-
6626251-$ or US-
6585041-$ or US-
6571886-$ or US-
6543544-$ or US-
6543540-$ or US-
6540033-$ or US-
6536529-$ or US-
6505691-$ or US-
6467544-$ or US-
6464011-$ or US-
6443228-$ or US-
6434435-$ or US-
6419032-$ or US-
6415877-$ or US-
6414905-$ or US-
6289999-$ or US-
6234250-$).did. or (US-
6230822-$ or US-
6192988-$ or US-
6192980-$ or US-
6182764-$ or US-
6176327-$ or US-
6176312-$ or US-
6167965-$ or US-
6046685-$ or US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5975204-$ or US-
5941307-$ or US-
5937945-$ or US-
5934374-$ or US-
5896924-$ or US-
5868201-$ or US-
5857522-$ or US-
5829520-$ or US-
5803167-$ or US-
5762149-$ or US-
5741962-$ or US-
5735346-$ or US-
5732776-$ or US-
5730219-$ or US-
5721538-$ or US-
5706896-$).did. or (US-
5706892-$ or US-
5662165-$ or US-
5622223-$ or US-
5597042-$ or US-
5579283-$ or US-
5573225-$ or US-
5525040-$ or US-
5517854-$ or US-
5482402-$ or US-
5472050-$ or US-

		5439055-$ or US-5377755-$ or US-5353637-$ or US-5325795-$ or US-5261765-$ or US-5180015-$ or US-5168932-$ or US-5024275-$ or US-4721172-$ or US-4615390-$ or US-4475593-$ or US-4440239-$ or US-4374544-$ or US-4354553-$ or US-4145161-$ or US-4063602-$ or US-3705626-$).did. or (US-3578077-$).did.					
S48	184	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and S47	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35	
S49	184	(US-20070215386-$ or US-20070187103-$ or US-20070175638-$ or US-20070151762-$ or US-20070079962-$ or US-20070068704-$ or US-20070045006-$ or US-20070044960-$ or US-20070039731-$ or US-20070017675-$ or US-20070007041-$ or US-20060260331-$ or US-20060225920-$ or US-20060207795-$ or US-20060175061-$ or US-20060157282-$ or US-20060124352-$ or US-20060113110-$ or US-20060102390-$ or US-20060081378-$ or US-20060065402-$ or US-20060054323-$ or US-20060037781-$ or US-20060037408-$ or US-20060000603-$ or US-20050288819-$). did. or (US-20050279506-$ or US-20050274547-$ or US-20050263287-$ or US-20050217350-$ or US-20050183574-$ or US-20050166961-$ or US-	US-PGPUB; USPAT	OR	OFF	2007/12/11 11:35	

20050155760-$ or US-
20050121197-$ or US-
20050098349-$ or US-
20050011645-$ or US-
20040256161-$ or US-
20040222018-$ or US-
20040216874-$ or US-
20040206548-$ or US-
20040173351-$ or US-
20040168811-$ or US-
20040154805-$ or US-
20040154803-$ or US-
20040129874-$ or US-
20040129428-$ or US-
20040129070-$ or US-
20040124008-$ or US-
20040112642-$ or US-
20040069539-$ or US-
20040069504-$ or US-
20040065477-$ or US-
20040065440-$).did. or
(US-20040060705-$ or
US-20040031623-$ or
US-20040007392-$ or
US-20040000433-$ or
US-20030192692-$ or
US-20030098181-$ or
US-20030085185-$ or
US-20030079912-$ or
US-20030079880-$ or
US-20030066650-$ or
US-20030042021-$ or
US-20030015320-$ or
US-20020185273-$ or
US-20020112888-$ or
US-20020092655-$ or
US-20020084072-$ or
US-20020066596-$ or
US-20020060067-$ or
US-20020050354-$ or
US-20020020533-$ or
US-20010054514-$ or
US-20010050170-$ or
US-20010013412-$).
did. or (US-7278496-$
or US-7270185-$ or US-
7246662-$ or US-
7243536-$ or US-
7234524-$ or US-
7198105-$ or US-
7195084-$ or US-
7185705-$ or US-
7178599-$ or US-
7174975-$ or US-
7140436-$ or US-
7128144-$ or US-

7114581-$ or US-
7114401-$ or US-
7096975-$ or US-
7090012-$ or US-
7066280-$ or US-
7055627-$ or US-
7044237-$ or US-
7044229-$ or US-
6981561-$ or US-
6976535-$ or US-
6964301-$ or US-
6957698-$ or US-
6904982-$ or US-
6899178-$).did. or (US-
6854532-$ or US-
6851444-$ or US-
6814142-$ or US-
6745833-$ or US-
6730236-$ or US-
6688390-$ or US-
6668924-$ or US-
6666271-$ or US-
6659177-$ or US-
6648081-$ or US-
6626251-$ or US-
6585041-$ or US-
6571886-$ or US-
6543544-$ or US-
6543540-$ or US-
6540033-$ or US-
6536529-$ or US-
6505691-$ or US-
6467544-$ or US-
6464011-$ or US-
6443228-$ or US-
6434435-$ or US-
6419032-$ or US-
6415877-$ or US-
6414905-$ or US-
6289999-$ or US-
6234250-$).did. or (US-
6230822-$ or US-
6192988-$ or US-
6192980-$ or US-
6182764-$ or US-
6176327-$ or US-
6176312-$ or US-
6167965-$ or US-
6046685-$ or US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5975204-$ or US-
5941307-$ or US-
5937945-$ or US-
5934374-$ or US-

		5896924-$ or US-5868201-$ or US-5857522-$ or US-5829520-$ or US-5803167-$ or US-5762149-$ or US-5741962-$ or US-5735346-$ or US-5732776-$ or US-5730219-$ or US-5721538-$ or US-5706896-$).did. or (US-5706892-$ or US-5662165-$ or US-5622223-$ or US-5597042-$ or US-5579283-$ or US-5573225-$ or US-5525040-$ or US-5517854-$ or US-5482402-$ or US-5472050-$ or US-5439055-$ or US-5377755-$ or US-5353637-$ or US-5325795-$ or US-5261765-$ or US-5180015-$ or US-5168932-$ or US-5024275-$ or US-4721172-$ or US-4615390-$ or US-4475593-$ or US-4440239-$ or US-4374544-$ or US-4354553-$ or US-4145161-$ or US-4063602-$ or US-3705626-$).did. or (US-3578077-$).did.				
S50	184	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and S49	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S51	185	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and (flow with (measur$7 sens$4 detect$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:02

| S52 | 185 | (US-20070278007-$ or US-20070215386-$ or US-20070187103-$ or US-20070175638-$ or US-20070151762-$ or US-20070079962-$ or US-20070068704-$ or US-20070045006-$ or US-20070044960-$ or US-20070039731-$ or US-20070017675-$ or US-20070007041-$ or US-20060260331-$ or US-20060225920-$ or US-20060207795-$ or US-20060175061-$ or US-20060157282-$ or US-20060124352-$ or US-20060113110-$ or US-20060102390-$ or US-20060081378-$ or US-20060065402-$ or US-20060054323-$ or US-20060037781-$ or US-20060037408-$ or US-20060000603-$). did. or (US-20050288819-$ or US-20050279506-$ or US-20050274547-$ or US-20050263287-$ or US-20050217350-$ or US-20050183574-$ or US-20050166961-$ or US-20050155760-$ or US-20050121197-$ or US-20050098349-$ or US-20050011645-$ or US-20040256161-$ or US-20040222018-$ or US-20040216874-$ or US-20040206548-$ or US-20040173351-$ or US-20040168811-$ or US-20040154805-$ or US-20040154803-$ or US-20040129874-$ or US-20040129428-$ or US-20040129070-$ or US-20040124008-$ or US-20040112642-$ or US-20040069539-$ or US-20040069504-$ or US-20040065477-$).did. or (US-20040065440-$ or | US-PGPUB; USPAT | OR | OFF | 2007/12/11 11:41 |

US-20040060705-$ or
US-20040031623-$ or
US-20040007392-$ or
US-20040000433-$ or
US-20030192692-$ or
US-20030098181-$ or
US-20030085185-$ or
US-20030079912-$ or
US-20030079880-$ or
US-20030066650-$ or
US-20030042021-$ or
US-20030015320-$ or
US-20020185273-$ or
US-20020112888-$ or
US-20020092655-$ or
US-20020084072-$ or
US-20020066596-$ or
US-20020060067-$ or
US-20020050354-$ or
US-20020020533-$ or
US-20010054514-$ or
US-20010050170-$ or
US-20010013412-$).
did. or (US-7278496-$
or US-7270185-$ or US-
7246662-$ or US-
7243536-$ or US-
7234524-$ or US-
7198105-$ or US-
7195084-$ or US-
7185705-$ or US-
7178599-$ or US-
7174975-$ or US-
7140436-$ or US-
7128144-$ or US-
7114581-$ or US-
7114401-$ or US-
7096975-$ or US-
7090012-$ or US-
7066280-$ or US-
7055627-$ or US-
7044237-$ or US-
7044229-$ or US-
6981561-$ or US-
6976535-$ or US-
6964301-$ or US-
6957698-$ or US-
6904982-$ or US-
6899178-$).did. or (US-
6854532-$ or US-
6851444-$ or US-
6814142-$ or US-
6745833-$ or US-
6730236-$ or US-
6688390-$ or US-
6668924-$ or US-

6666271-$ or US-
6659177-$ or US-
6648081-$ or US-
6626251-$ or US-
6585041-$ or US-
6571886-$ or US-
6543544-$ or US-
6543540-$ or US-
6540033-$ or US-
6536529-$ or US-
6505691-$ or US-
6467544-$ or US-
6464011-$ or US-
6443228-$ or US-
6434435-$ or US-
6419032-$ or US-
6415877-$ or US-
6414905-$ or US-
6289999-$ or US-
6234250-$).did. or (US-
6230822-$ or US-
6192988-$ or US-
6192980-$ or US-
6182764-$ or US-
6176327-$ or US-
6176312-$ or US-
6167965-$ or US-
6046685-$ or US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5975204-$ or US-
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5937945-$ or US-
5934374-$ or US-
5896924-$ or US-
5868201-$ or US-
5857522-$ or US-
5829520-$ or US-
5803167-$ or US-
5762149-$ or US-
5741962-$ or US-
5735346-$ or US-
5732776-$ or US-
5730219-$ or US-
5721538-$ or US-
5706896-$).did. or (US-
5706892-$ or US-
5662165-$ or US-
5622223-$ or US-
5597042-$ or US-
5579283-$ or US-
5573225-$ or US-
5525040-$ or US-
5517854-$ or US-
5482402-$ or US-

		5472050-$ or US-5439055-$ or US-5377755-$ or US-5353637-$ or US-5325795-$ or US-5261765-$ or US-5180015-$ or US-5168932-$ or US-5024275-$ or US-4721172-$ or US-4615390-$ or US-4475593-$ or US-4440239-$ or US-4374544-$ or US-4354553-$ or US-4145161-$ or US-4063602-$ or US-3705626-$).did. or (US-3578077-$).did.				
S53	185	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and S52	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S54	59	(wellbore with flow with control$4) and ((maintain$4 constant) with flow) and (flow with (measur$7 sens$4 detect$4)) and pump and turbine and (pressure with (measur$7 sens$4 detect$4))	US-PGPUB; USPAT	OR	ON	2007/12/11 15:23
S55	126	S53 not S54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S56	38	(wellbore with flow with control$4) and ((maintain$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur$7 sens$4 detect$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04

S57	25	(wellbore with flow with control$4) and ((maintain$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur$7 sens$4 detect$4)) and pump not S54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04
S58	2541	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:01
S59	2389	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:15
S60	2141	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4exceed$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16
S61	2187	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 exceed$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16

S62	770	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:17
S63	986	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:18
S64	838	wellbore.bsum. and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:19
S65	316	wellbore.bsum. and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value)) and loop$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:20

S66	368	wellbore and pump$4 and ((((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value)) and loop$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:21
S67	368	(US-20090166171-$ or US-20090158837-$ or US-20090140444-$ or US-20090139724-$ or US-20090126929-$ or US-20090124521-$ or US-20090120646-$ or US-20090095480-$ or US-20090095479-$ or US-20090095478-$ or US-20090095477-$ or US-20090095476-$ or US-20090090509-$ or US-20090090504-$ or US-20090090158-$ or US-20090084547-$ or US-20090078461-$ or US-20090078036-$ or US-20090071652-$ or US-20090071647-$ or US-20090044951-$ or US-20090029878-$ or US-20090020456-$ or US-20090008560-$ or US-20080317095-$ or US-20080314638-$). did. or (US-20080314593-$ or US-20080289435-$ or US-20080271923-$ or US-20080264495-$ or US-20080262736-$ or US-20080257544-$ or US-20080230219-$ or US-20080210470-$ or US-20080182762-$ or US-20080156486-$ or US-20080149343-$ or US-20080149329-$ or US-20080133194-$ or US-20080115575-$ or US-20080115574-$ or US-	US-PGPUB; USPAT	OR	OFF	2009/07/14 14:34

20080110674-$ or US-
20080110673-$ or US-
20080093124-$ or US-
20080067116-$ or US-
20080066536-$ or US-
20080041149-$ or US-
20070246263-$ or US-
20070235223-$ or US-
20070227774-$ or US-
20070215386-$ or US-
20070214877-$ or US-
20070209799-$).did. or
(US-20070197851-$ or
US-20070193739-$ or
US-20070187089-$ or
US-20070151762-$ or
US-20070131411-$ or
US-20070119626-$ or
US-20070095540-$ or
US-20070079962-$ or
US-20070068704-$ or
US-20070045006-$ or
US-20070007041-$ or
US-20060243643-$ or
US-20060213657-$ or
US-20060198742-$ or
US-20060188651-$ or
US-20060169457-$ or
US-20060164918-$ or
US-20060157282-$ or
US-20060151167-$ or
US-20060124352-$ or
US-20060122777-$ or
US-20060113110-$ or
US-20060102390-$ or
US-20060065402-$ or
US-20060052903-$ or
US-20060039842-$ or
US-20060037781-$).
did. or (US-
20060016594-$ or US-
20050279507-$ or US-
20050279492-$ or US-
20050274508-$ or US-
20050269104-$ or US-
20050269072-$ or US-
20050183574-$ or US-
20050166961-$ or US-
20050101493-$ or US-
20050101492-$ or US-
20050098349-$ or US-
20050092483-$ or US-
20050072578-$ or US-
20050051327-$ or US-
20050006097-$ or US-
20040256161-$ or US-

20040245020-$ or US-
20040231842-$ or US-
20040231408-$ or US-
20040211569-$ or US-
20040211557-$ or US-
20040211554-$ or US-
20040206548-$ or US-
20040195004-$ or US-
20040177966-$ or US-
20040168811-$ or US-
20040146288-$).did. or
(US-20040145969-$ or
US-20040144541-$ or
US-20040144540-$ or
US-20040140096-$ or
US-20040140095-$ or
US-20040124008-$ or
US-20040112642-$ or
US-20040112594-$ or
US-20040108118-$ or
US-20040104027-$ or
US-20040099443-$ or
US-20040065477-$ or
US-20040064292-$ or
US-20040060705-$ or
US-20040050153-$ or
US-20040040715-$ or
US-20040040707-$ or
US-20040026076-$ or
US-20040020643-$ or
US-20040020642-$ or
US-20040020636-$ or
US-20030226663-$ or
US-20030209348-$ or
US-20030205378-$ or
US-20030203822-$ or
US-20030201098-$ or
US-20030196810-$).
did. or (US-
20030196801-$ or US-
20030196789-$ or US-
20030196788-$ or US-
20030192693-$ or US-
20030192691-$ or US-
20030183390-$ or US-
20030178191-$ or US-
20030173085-$ or US-
20030173082-$ or US-
20030173081-$ or US-
20030173080-$ or US-
20030173078-$ or US-
20030173072-$ or US-
20030164239-$ or US-
20030155111-$ or US-
20030148894-$ or US-
20030146002-$ or US-

20030142964-$ or US-
20030141068-$ or US-
20030141067-$ or US-
20030141066-$ or US-
20030137181-$ or US-
20030136559-$ or US-
20030136558-$ or US-
20030131996-$ or US-
20030131995-$ or US-
20030131994-$).did. or
(US-20030131993-$ or
US-20030130136-$ or
US-20030127230-$ or
US-20030116315-$ or
US-20030111223-$ or
US-20030102130-$ or
US-20030102126-$ or
US-20030102125-$ or
US-20030102124-$ or
US-20030100451-$ or
US-20030098605-$ or
US-20030098181-$ or
US-20030098149-$ or
US-20030080604-$ or
US-20030079912-$ or
US-20030079877-$ or
US-20030071988-$ or
US-20030066650-$ or
US-20030051873-$ or
US-20030034177-$ or
US-20030015320-$ or
US-20020178803-$ or
US-20020112888-$ or
US-20020092655-$ or
US-20020066568-$ or
US-20020053426-$ or
US-20020020533-$).
did. or (US-
20010013412-$).did. or
(US-7558699-$ or US-
7493969-$ or US-
7484574-$ or US-
7464770-$ or US-
7461691-$ or US-
7451812-$ or US-
7449431-$ or US-
7434621-$ or US-
7434619-$ or US-
7395864-$ or US-
7389787-$ or US-
7367411-$ or US-
7360588-$ or US-
7353887-$ or US-
7334650-$ or US-
7320374-$ or US-
7311151-$ or US-

7278496-$ or US-
7270185-$ or US-
7266983-$ or US-
7248969-$ or US-
7234524-$ or US-
7234521-$ or US-
7231969-$ or US-
7228913-$ or US-
7225866-$).did. or (US-
7222683-$ or US-
7222524-$ or US-
7219734-$ or US-
7218997-$ or US-
7208845-$ or US-
7199480-$ or US-
7195084-$ or US-
7188686-$ or US-
7187298-$ or US-
7174975-$ or US-
7168924-$ or US-
7165615-$ or US-
7156176-$ or US-
7128153-$ or US-
7121342-$ or US-
7121341-$ or US-
7117120-$ or US-
7114581-$ or US-
7114566-$ or US-
7104319-$ or US-
7100994-$ or US-
7096975-$ or US-
7096942-$ or US-
7090013-$ or US-
7086465-$ or US-
7077199-$ or US-
7077198-$).did. or (US-
7073578-$ or US-
7066257-$ or US-
7066254-$ or US-
7063145-$ or US-
7059427-$ or US-
7055600-$ or US-
7051811-$ or US-
7051808-$ or US-
7051807-$ or US-
7044237-$ or US-
7040400-$ or US-
7040399-$ or US-
7040398-$ or US-
7040397-$ or US-
7032675-$ or US-
7032660-$ or US-
7032658-$ or US-
7021388-$ or US-
7013972-$ or US-
7011154-$ or US-

7004251-$ or US-
7004247-$ or US-
6997518-$ or US-
6994169-$ or US-
6991045-$ or US-
6991036-$ or US-
6991033-$).did. or (US-
6991032-$ or US-
6988547-$ or US-
6981561-$ or US-
6981548-$ or US-
6969123-$ or US-
6966374-$ or US-
6964300-$ or US-
6951247-$ or US-
6948562-$ or US-
6932155-$ or US-
6929067-$ or US-
6923257-$ or US-
6923052-$ or US-
6918443-$ or US-
6918442-$ or US-
6915850-$ or US-
6915848-$ or US-
6904366-$ or US-
6891606-$ or US-
6886406-$ or US-
6880633-$ or US-
6880402-$ or US-
6877555-$ or US-
6871713-$ or US-
6857486-$ or US-
6854532-$ or US-
6851444-$).did. or (US-
6823950-$ or US-
6814142-$ or US-
6811382-$ or US-
6782947-$ or US-
6776240-$ or US-
6672386-$ or US-
6668943-$ or US-
6662110-$ or US-
6648081-$ or US-
6622791-$ or US-
RE38249-$ or US-
6585041-$ or US-
6490916-$ or US-
6470970-$ or US-
6464011-$ or US-
6461414-$ or US-
6439307-$ or US-
6419014-$ or US-
6415877-$ or US-
6414905-$ or US-
6378364-$ or US-
6353706-$ or US-

6325152-$ or US-
6237691-$ or US-
6206108-$ or US-
6192988-$ or US-
6177014-$).did. or (US-
6089322-$ or US-
6055213-$ or US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5941307-$ or US-
5934374-$ or US-
5865247-$ or US-
5775803-$ or US-
5680049-$ or US-
5665242-$ or US-
5662171-$ or US-
5656172-$ or US-
5624182-$ or US-
5588491-$ or US-
5586027-$ or US-
5517593-$ or US-
5441340-$ or US-
5430259-$ or US-
5425268-$ or US-
5343963-$ or US-
5281023-$ or US-
5275040-$ or US-
5263848-$ or US-
5257528-$ or US-
5042149-$ or US-
5012868-$).did. or (US-
4924949-$ or US-
4919201-$ or US-
4893505-$ or US-
4880363-$ or US-
4844812-$ or US-
4836305-$ or US-
4799550-$ or US-
4799544-$ or US-
4778355-$ or US-
4742459-$ or US-
4683944-$ or US-
4611974-$ or US-
4535972-$ or US-
4440239-$ or US-
4391925-$ or US-
4250974-$ or US-
3705626-$ or US-
3578077-$).did.

S68	368	S67 and ((fluid flow liquid rate) with (maintain$4 within keep $4 above below exceed $4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:34
S69	368	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraint range boundary desired value)) and loop$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S70	368	S67 and ((fluid flow liquid rate) with (maintain$4 within keep $4 above below exceed $4) with (limit constraint range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S71	379	wellbore and pump$4 and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and loop$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:49

| S72 | 379 | (US-20090166171-$ or US-20090158837-$ or US-20090140444-$ or US-20090139724-$ or US-20090126929-$ or US-20090124521-$ or US-20090120646-$ or US-20090095480-$ or US-20090095479-$ or US-20090095478-$ or US-20090095477-$ or US-20090095476-$ or US-20090091320-$ or US-20090090509-$ or US-20090090504-$ or US-20090090158-$ or US-20090084547-$ or US-20090078461-$ or US-20090078036-$ or US-20090071652-$ or US-20090071647-$ or US-20090044951-$ or US-20090029878-$ or US-20090025930-$ or US-20090020456-$ or US-20090008560-$). did. or (US-20080317095-$ or US-20080314638-$ or US-20080314593-$ or US-20080289435-$ or US-20080271923-$ or US-20080264495-$ or US-20080262736-$ or US-20080257544-$ or US-20080230219-$ or US-20080210470-$ or US-20080182762-$ or US-20080156486-$ or US-20080149343-$ or US-20080149329-$ or US-20080133194-$ or US-20080115575-$ or US-20080115574-$ or US-20080110674-$ or US-20080110673-$ or US-20080093124-$ or US-20080067116-$ or US-20080066536-$ or US-20080041149-$ or US-20080007423-$ or US-20070246263-$ or US-20070235223-$ or US-20070227774-$).did. or (US-20070215386-$ or | US-PGPUB; USPAT | OR | OFF | 2009/07/14 14:50 |

US-20070214877-$ or
US-20070209799-$ or
US-20070197851-$ or
US-20070193739-$ or
US-20070187089-$ or
US-20070151762-$ or
US-20070131411-$ or
US-20070119626-$ or
US-20070095540-$ or
US-20070079962-$ or
US-20070068704-$ or
US-20070056771-$ or
US-20070045006-$ or
US-20070007041-$ or
US-20060243643-$ or
US-20060225920-$ or
US-20060213657-$ or
US-20060198742-$ or
US-20060188651-$ or
US-20060169457-$ or
US-20060164918-$ or
US-20060157282-$ or
US-20060151167-$ or
US-20060124352-$ or
US-20060122777-$ or
US-20060113110-$).
did. or (US-
20060102390-$ or US-
20060065402-$ or US-
20060052903-$ or US-
20060039842-$ or US-
20060037781-$ or US-
20060016594-$ or US-
20050279507-$ or US-
20050279492-$ or US-
20050274508-$ or US-
20050269104-$ or US-
20050269072-$ or US-
20050183574-$ or US-
20050166961-$ or US-
20050115718-$ or US-
20050101493-$ or US-
20050101492-$ or US-
20050098349-$ or US-
20050092483-$ or US-
20050072578-$ or US-
20050051327-$ or US-
20050006097-$ or US-
20040256161-$ or US-
20040245020-$ or US-
20040231842-$ or US-
20040231408-$ or US-
20040211569-$ or US-
20040211557-$).did. or
(US-20040211554-$ or
US-20040206548-$ or

US-20040195004-$ or
US-20040177966-$ or
US-20040168811-$ or
US-20040146288-$ or
US-20040145969-$ or
US-20040144541-$ or
US-20040144540-$ or
US-20040140096-$ or
US-20040140095-$ or
US-20040124008-$ or
US-20040112642-$ or
US-20040112594-$ or
US-20040108118-$ or
US-20040104027-$ or
US-20040099443-$ or
US-20040065477-$ or
US-20040064292-$ or
US-20040060705-$ or
US-20040050153-$ or
US-20040040715-$ or
US-20040040707-$ or
US-20040026076-$ or
US-20040020643-$ or
US-20040020642-$ or
US-20040020636-$).
did. or (US-
20030226663-$ or US-
20030209348-$ or US-
20030205378-$ or US-
20030203822-$ or US-
20030201098-$ or US-
20030196810-$ or US-
20030196801-$ or US-
20030196789-$ or US-
20030196788-$ or US-
20030192693-$ or US-
20030192691-$ or US-
20030183390-$ or US-
20030178191-$ or US-
20030173085-$ or US-
20030173082-$ or US-
20030173081-$ or US-
20030173080-$ or US-
20030173078-$ or US-
20030173072-$ or US-
20030164239-$ or US-
20030155111-$ or US-
20030148894-$ or US-
20030146002-$ or US-
20030142964-$ or US-
20030141068-$ or US-
20030141067-$ or US-
20030141066-$).did. or
(US-20030137181-$ or
US-20030136559-$ or
US-20030136558-$ or

US-20030131996-$ or
US-20030131995-$ or
US-20030131994-$ or
US-20030131993-$ or
US-20030130136-$ or
US-20030127230-$ or
US-20030116315-$ or
US-20030111223-$ or
US-20030102130-$ or
US-20030102126-$ or
US-20030102125-$ or
US-20030102124-$ or
US-20030100451-$ or
US-20030098605-$ or
US-20030098181-$ or
US-20030098149-$ or
US-20030080604-$ or
US-20030079912-$ or
US-20030079877-$ or
US-20030071988-$ or
US-20030066650-$ or
US-20030051873-$ or
US-20030034177-$ or
US-20030015320-$).
did. or (US-
20020178803-$ or US-
20020112888-$ or US-
20020092655-$ or US-
20020066568-$ or US-
20020053426-$ or US-
20020020533-$ or US-
20010013412-$).did. or
(US-7558699-$ or US-
7518950-$ or US-
7493969-$ or US-
7484574-$ or US-
7464770-$ or US-
7461691-$ or US-
7451812-$ or US-
7449431-$ or US-
7434621-$ or US-
7434619-$ or US-
7395864-$ or US-
7389787-$ or US-
7367411-$ or US-
7360588-$ or US-
7353887-$ or US-
7334650-$ or US-
7320374-$ or US-
7311151-$ or US-
7278496-$ or US-
7270185-$ or US-
7266983-$ or US-
7248969-$ or US-
7234524-$ or US-
7234521-$ or US-

7231969-$ or US-
7228913-$).did. or (US-
7225866-$ or US-
7222683-$ or US-
7222524-$ or US-
7219734-$ or US-
7218997-$ or US-
7208845-$ or US-
7199480-$ or US-
7195084-$ or US-
7188686-$ or US-
7187298-$ or US-
7174975-$ or US-
7168924-$ or US-
7165615-$ or US-
7156176-$ or US-
7128153-$ or US-
7121342-$ or US-
7121341-$ or US-
7117120-$ or US-
7114581-$ or US-
7114566-$ or US-
7104319-$ or US-
7100994-$ or US-
7096975-$ or US-
7096942-$ or US-
7090013-$ or US-
7086465-$ or US-
7077199-$).did. or (US-
7077198-$ or US-
7073578-$ or US-
7066257-$ or US-
7066254-$ or US-
7063145-$ or US-
7059427-$ or US-
7055600-$ or US-
7051811-$ or US-
7051808-$ or US-
7051807-$ or US-
7044237-$ or US-
7040400-$ or US-
7040399-$ or US-
7040398-$ or US-
7040397-$ or US-
7032675-$ or US-
7032660-$ or US-
7032658-$ or US-
7021388-$ or US-
7013972-$ or US-
7011154-$ or US-
7004251-$ or US-
7004247-$ or US-
6997518-$ or US-
6994169-$ or US-
6991045-$ or US-
6991036-$).did. or (US-

6991033-$ or US-
6991032-$ or US-
6988547-$ or US-
6981561-$ or US-
6981548-$ or US-
6969123-$ or US-
6966374-$ or US-
6964300-$ or US-
6951247-$ or US-
6948562-$ or US-
6932155-$ or US-
6929067-$ or US-
6923257-$ or US-
6923052-$ or US-
6918443-$ or US-
6918442-$ or US-
6915850-$ or US-
6915848-$ or US-
6904366-$ or US-
6891606-$ or US-
6886406-$ or US-
6880633-$ or US-
6880402-$ or US-
6877555-$ or US-
6871713-$ or US-
6857486-$ or US-
6854532-$).did. or (US-
6851444-$ or US-
6823950-$ or US-
6814142-$ or US-
6811382-$ or US-
6782947-$ or US-
6776240-$ or US-
6672386-$ or US-
6668943-$ or US-
6662110-$ or US-
6648081-$ or US-
6622791-$ or US-
RE38249-$ or US-
6585041-$ or US-
6490916-$ or US-
6470970-$ or US-
6464011-$ or US-
6461414-$ or US-
6439307-$ or US-
6419014-$ or US-
6415877-$ or US-
6414905-$ or US-
6378364-$ or US-
6353706-$ or US-
6325152-$ or US-
6237691-$ or US-
6206108-$ or US-
6192988-$).did. or (US-
6177014-$ or US-
6089322-$ or US-

6055213-$ or US-
6035952-$ or US-
6012015-$ or US-
5992519-$ or US-
5941307-$ or US-
5934374-$ or US-
5865247-$ or US-
5775803-$ or US-
5680049-$ or US-
5665242-$ or US-
5662171-$ or US-
5656172-$ or US-
5624182-$ or US-
5590958-$ or US-
5588491-$ or US-
5586027-$ or US-
5579283-$ or US-
5517593-$ or US-
5503473-$ or US-
5441340-$ or US-
5430259-$ or US-
5425268-$ or US-
5343963-$ or US-
5281023-$ or US-
5275040-$).did. or (US-
5263848-$ or US-
5257528-$ or US-
5042149-$ or US-
5012868-$ or US-
4924949-$ or US-
4919201-$ or US-
4893505-$ or US-
4880363-$ or US-
4844812-$ or US-
4836305-$ or US-
4799550-$ or US-
4799544-$ or US-
4778355-$ or US-
4742459-$ or US-
4683944-$ or US-
4635735-$ or US-
4611974-$ or US-
4535972-$ or US-
4440239-$ or US-
4391925-$ or US-
4250974-$ or US-
3705626-$ or US-
3578077-$).did.

| S73 | 379 | ((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and S72 | US-PGPUB; USPAT | OR | ON | 2009/07/14 14:51 |

S74	15423	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:39
S75	173	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir) and S72	US-PGPUB; USPAT	OR	ON	2009/07/14 16:40
S76	27	(US-20040098984-$ or US-20030078751-$ or US-20020117214-$ or US-20050056313-$ or US-20020005197-$ or US-20030230307-$ or US-20030066650-$). did. or (US-6568416-$ or US-4942763-$ or US-5511582-$ or US-6648576-$ or US-6547505-$ or US-6312209-$ or US-5426137-$ or US-6668943-$ or US-5382411-$ or US-4374544-$ or US-6981561-$ or US-5857522-$ or US-3578077-$ or US-5579283-$ or US-5586027-$ or US-6035952-$ or US-6206108-$ or US-6662110-$ or US-6851444-$ or US-7234524-$).did.	US-PGPUB; USPAT	OR	OFF	2009/07/14 16:40
S77	2	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir) and S76	US-PGPUB; USPAT	OR	ON	2009/07/14 16:41

S78	1294	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S79	732	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir with (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S80	2	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir with (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S81	9	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with reservoir same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S82	21	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with (reservoir tank) same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:45

S83	2364	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with (reservoir tank) same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:49
S84	1459	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S85	20	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S86	36	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold)) and (pump $4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:52

S87	65	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur$7 sens$4 detect$4 meter)) same ((fluid flow liquid) with (regulat$7 control$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:53
S88	106	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 17:10
S89	41	S88 not S87	US-PGPUB; USPAT	OR	ON	2009/07/14 17:11
S90	124	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 same (reservoir tank source) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41

S91	106	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S92	18	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S93	20	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump $4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PGPUB; USPAT	OR	ON	2009/07/20 09:16

S94	45	("20020117214" | "20030066650" | "20030078751" | "20030085036" | "20040007131" | "20060157282" | "3578077" | "4091881" | "4197868" | "4247312" | "4374544" | "4942763" | "5010966" | "5382411" | "5388650" | "5415776" | "5426137" | "5426137" | "5511582" | "5694966" | "5749422" | "5775442" | "5827357" | "5857522" | "5857522" | "5862869" | "5921962" | "5928519" | "6035952" | "6041873" | "6048175" | "6206113" | "6234258" | "6312209" | "6315813" | "6328107" | "6328118" | "6413297" | "6443245" | "6494262" | "6568416" | "6662885" | "6668943" | "6722436" | "6790367" | "6929068" | "6981561").PN.	US-PGPUB; USPAT	OR	ON	2009/07/20 09:30
S95	2	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump $4 same (reservoir tank source vessel container) same (feedback loop)) and wellbore not (S91 S93)	US-PGPUB; USPAT	OR	ON	2009/07/20 09:56
S96	25	S94 and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:00
S97	899	700/282.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01

S98	237	700/283.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S99	412	137/2.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S100	175	137/7.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S101	138	137/8.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S102	281	137/101.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S103	436	137/110.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S104	277	700/284.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S105	517	251/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S106	597	137/14.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S107	101	137/485.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S108	699	137/486.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S109	1198	137/487.5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S110	603	137/489.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S111	1275	137/557.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S112	403	175/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S113	146	175/25.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S114	151	175/38.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S115	338	175/48.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S116	369	702/9.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S117	267	702/12.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S118	752	702/45.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S119	549	702/50.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S120	478	702/100.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03

S121	237	702/113.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S122	86	702/114.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S123	152	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S124	245	166/358.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S125	60211	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 with (reservoir tank source vessel))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S126	1258	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S127	1270	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:05

S128	528	((fluid flow liquid rate) with (maintain$4 within keep$4 above below exceed$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control $4 regulat$4 valve)) same ((fluid flow liquid rate) with (measur$7 sens$4 detect$4 meter)))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:07

7/23/09 3:36:48 PM
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